330703-000-050-10-11-05

3300 XL 11 mm Proximity Probe

Apter Power field guide covering identity capture, installed relationships, controlled replacement, commissioning and handover.

11 mm installed identity

The 330703 metric probe uses an M14 x 1.5 case and an 11 mm sensing tip. Its 50 mm case and zero unthreaded reach must be checked against the installed sleeve, locknut position and target clearance before removal.

Complete identity record

Probe family	3300 XL 11 mm
Mounting thread	M14 x 1.5
Armor	Without armor
Unthreaded length	0 mm
Overall case length	50 mm
Total probe length	1.0 m
Connector and cable option	11 - ClickLoc with protector, FluidLoc cable
Agency approval option	05 - Multiple approvals

Installed relationship

Published performance belongs to a matched 3300 XL 11 mm probe, extension cable and Proximitor Sensor under the stated calibration conditions

Long-range shaft displacement

Use the 4.0 mm system range where an 8 mm transducer does not provide sufficient travel.

Metric bearing-housing ports

Match the M14 x 1.5 thread and allowable engagement with the installed probe mounting.

Oil-exposed probe routing

Use the FluidLoc lead where process fluid migration through the cable core must be controlled.

Matched-system service

Retain the 11 mm probe, extension cable and Proximitor Sensor identities as one calibrated chain.

Evidence boundary

Exact configuration	M14 x 1.5 standard-mount probe, 0 mm unthreaded length, 50 mm case, 1.0 m FluidLoc lead, connector protector and multiple-approval option
System boundary	Published performance belongs to a matched 3300 XL 11 mm probe, extension cable and Proximitor Sensor under the stated calibration conditions
Technical reference	Bently Nevada 3300 XL 11 mm Proximity Transducer System Datasheet 146256 Rev. T

Long-range mechanical readiness

Option 11 combines a miniature coaxial ClickLoc connector, connector protector and FluidLoc cable. The 1.0 m probe lead is used in a matched 3300 XL 11 mm chain with the appropriate extension cable and Proximitor Sensor.

Readiness checks

Verify the full 330703 code

Confirm 000, 050, 10, 11 and 05 against the installed marking.

Check thread engagement

Do not exceed the documented 21 mm engagement limit for M14 x 1.5.

Protect the sensing face

Prevent impact, metal chips and side loading on the 11 mm tip.

Respect the bend radius

Route the lead without bends tighter than 25.4 mm or load on the connector.

Set gap from live voltage

Establish the operating point with the matched system energized and the approved target.

Prove the complete channel

Compare gap, runout, vibration or position response with the accepted baseline.

Technical values used for fit decisions

System linear range	4.0 mm (160 mils)
System scale factor	3.94 V/mm (100 mV/mil)
Recommended gap	2.5 mm (100 mils)
Frequency response	0 to 8 kHz, +0/-3 dB typical
Probe material	PPS tip; AISI 304 stainless-steel case
Recommended case torque	21.1 N m for M14 x 1.5
Minimum cable bend radius	25.4 mm
Probe temperature	-52 to +177 deg C

Installed signal or connection path



Readiness boundary

Application scope: Use it for non-contacting radial vibration or axial-position measurement where the documented 11 mm system range and target geometry are required.

Matched-chain replacement sequence

01 Capture	Photograph the complete marking, installed position, connections and companion hardware before disturbance.
02 Isolate	Apply the approved machine or system isolation and prove the required de-energized state.
03 Compare	Check every order-code value and mechanical interface against the offered item and approved drawing.
04 Remove	Release connectors and supports without twisting, pulling or loading the sensing face, cable or armor.
05 Install	Confirm 000, 050, 10, 11 and 05 against the installed marking. Do not exceed the documented 21 mm engagement limit for M14 x 1.5.
06 Reconnect	Prevent impact, metal chips and side loading on the 11 mm tip. Route the lead without bends tighter than 25.4 mm or load on the connector.
07 Energize	Use the approved staged procedure and monitor the expected static state before functional testing.
08 Prove	Compare gap, runout, vibration or position response with the accepted baseline.

Field decisions

Why does 330703-000-050-10-11-05 use the 11 mm transducer family?

The 11 mm family provides a 4.0 mm linear range and 3.94 V/mm scale factor for applications needing more travel than the 8 mm system.

How should the M14 x 1.5 mounting port be checked for 330703-000-050-10-11-05?

Confirm thread condition, available 50 mm case depth and no more than 21 mm thread engagement before installation.

What does option 11 change on 330703-000-050-10-11-05?

It selects a miniature ClickLoc connector with protector and a FluidLoc probe cable.

Which Proximitor system length matches 330703-000-050-10-11-05?

The 1.0 m probe lead must be combined with the selected extension cable so the total electrical length matches the 11 mm Proximitor Sensor.

Further model-specific decisions

How is the operating point established for 330703-000-050-10-11-05?	Use the approved AISI 4140 target and set the matched system near the documented 2.5 mm recommended gap while observing live gap voltage.
What cross-talk check is relevant to 330703-000-050-10-11-05?	Review target diameter, shaft diameter and spacing to adjacent probes; below the recommended geometry, reduce gap only within the required measurement range.
Can 330703-000-050-10-11-05 be evaluated as a probe alone?	Mechanical identity can be checked alone, but published range, scale and linearity apply to the complete matched 11 mm transducer chain.
What should be recorded before removing 330703-000-050-10-11-05?	Record full marking, insertion position, locknut datum, cable route, companion extension cable and Proximitor Sensor, gap voltage and baseline response.

Gap and measurement acceptance

Identity accepted	Complete order code and supplied execution agree with the approved record.
Mechanical acceptance	Mounting, insertion, routing, support and connector condition match the documented arrangement.
Electrical acceptance	Continuity, static bias or gap and receiving-channel state are within the approved baseline.
Functional acceptance	Representative measurement or connection response agrees with the recorded machine condition.
Handover record	Retain photographs, as-left values, companion identities, deviations and responsible release.

Release record

As-found evidence	Complete marking, installed position, connection map and baseline readings retained.
As-left evidence	Installed identity, mechanical datum, static reading and functional result retained.
Approval basis	Site procedure, applicable manufacturer document and responsible release recorded.

Verified related product references

Recommended product	Bently Nevada 330980-70-05
Recommended product	Bently Nevada 330425-01-00
Recommended product	Bently Nevada 330500-07-00
Recommended product	Bently Nevada 330706-005-046-10-02-00
Recommended product	Bently Nevada 200355-00-00-00

Discuss the exact marking and installed relationship with Apter Power.
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